	Application No.	Applicant(s)
Notice of Allowability	10/666,303	VASHCHENKO ET AL.
	Examiner	Art Unit
	Kevin Quinto	2826
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiativ of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>18 September 2003</u> .		
2. The allowed claim(s) is/are 1-20.		
3. The drawings filed on 20 October 2003 are accepted by the Examiner.		
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)) (C)) (C) (C) (C) (C) (C) (C) (C) (C)		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachm nt(s) 1. ☑ Notice of References Cited (PTO-892)	5 □ Notice of Informal D	otant Application (DTO 450)
Notice of Praftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	atent Application (PTO-152)
	Paper No./Mail Dat	(F1 <del>0-4</del> 13), e
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08  Paper No./Mail Date 18 September 2003		
4. Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance
of Biological Material	9.  Other	

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## **DETAILED ACTION**

## Allowable Subject Matter

- 1. Claims 1-20 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: the examiner is unaware of any prior art which suggests an SCR (silicon controlled rectifier) that consists of a substrate of a first conductivity type which has a layer of a second conductivity type on top of it where there are four impurity regions formed within the second conductivity type layer such that there is a first region of first conductivity type at the top surface of the layer, a second region of second conductivity type which is both between and spaced apart from the first region and a third region of first conductivity type, and a fourth region of second conductivity type wherein all four regions are spaced apart from each other.
- 3. Mallikarjunaswamy (USPN 6,696,731 B2) discloses a silicon controlled rectifier formed with a p-type substrate and an n-type epitaxial layer. However Mallikarjunaswamy does not disclose the exact spatial configuration of the impurity regions within the n-type epitaxial layer as suggested by the applicant. Thus Mallikarjunaswamy does not teach the applicant's invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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1. \*

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quinto whose telephone number is (571) 272-1920. The examiner can normally be reached on M-F 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**KVQ**